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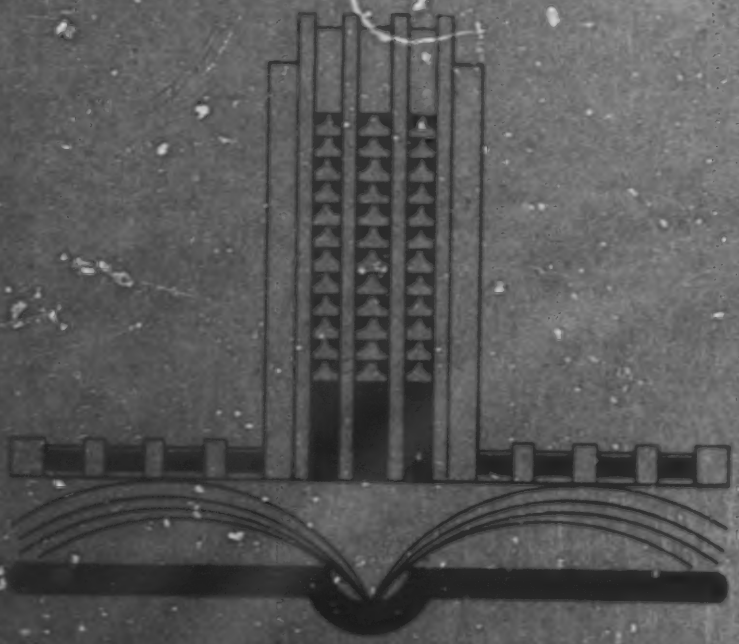

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Recently it has been recognized that changes in the chemical composition of the atmosphere are likely to alter the earth's climate, and that these alterations may have severe implications for agriculture and other economic activities. This has stimulated research into the possible consequences of altered climatic regimes on several

attributes or components of agri-food systems. Current consensus suggests that a global climatic warming, induced by increased concentrations of CO2 and other "greenhouse" gases, is likely, and hence the possible implications of warmer climates for agriculture has received considerable attention. Several analytical procedures have been employed in these studies and it is timely to assess the characteristics and achievements of these independent efforts. this paper classifies sod reviews studies that examine the implications of climatic warming for agriculture. Three approaches to assessment are recognized. Crop yield analysis identifies the effects of a specified change in climate on productivity levels for individual crops in particular locations. Spatial analysis examines the implications of climatic warming for the area and location of lands suitable for crop production. Agricultural systems analysis focuses on the relationships among components of agri-food systems. Much remains to be learned about the effects of climatic warming on agriculture. The use of existing information to develop a comprehensive analysis is hampered by differences in analytical approaches and in climatic change scenarios, and by the virtual absence of information on the possible implications of climatic change on agriculture in developing nations. Nevertheless, current evidence suggests that a warmer climate could create a more favorable environment for wheat (Triticum aestivum L.) and grain corn (Zea mays L.) in Canada, Northern Europe, and the USSR, and restrict opportunities in the USA.

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Achutuni, R.~Decker, W.L. 168
Acock, B. 91, 222
AGEND. 107
AGJDAT. 75
AGREA. 6
Allen, L.H. Jr. 242
AMBOC. 290
AMFOA. 235
Anderson, Dean E. 281
Anderson, T.D.~Helvey, J.D. 52
ANURA. 276
Arakawa, H. 135
Armentano, T. V.~ Thomas V. 246
Armentano, T. V.~Hett, J. 247
Aston, A.R. 102
Ausubel, Jesse.~Biswas, Asit K. 78
Bach, Wilfrid. 200
Ball, T.F. 162
Bancheva, A.D. 10
Barfield, B.J.~DAMED. 216
Barth, Michael C.~Titus, James G. 157
Bartlein, P.J. 80
Basiouny, F.M.~PFSHA. 115
Beggs, C.J. 283
Benson, Larry V. 255
Bergthorsson, P. 258
Bermejo S. H.A. 195
Bernard, Harold W. 153
Berning, D.J.~White, G.R. 284
Biggs, R.H. 111
Biscoe, P.V. 66
BISNA. 156, 223
Biswas, Asit K.,~ ed. 205
Blutner, E. K. 207
Bjorn, L.O. 85
Black, C.C. 39
Blackburn, W.J. 90
Blasing, T.J. 237
Bolin, Bert,. 159
Borucki, W.J.~Capone, L.A.~Riegel, C.A.~Turco, R.P. 194
Bossemeyer, D.~Lieth, H. 182
Bowling, S.A. 285
Brazel, A.J. 241
Briffa, K.R.~Jones, P.D. 15
Brown, J.~Outcalt, S.I. 220
Brown, Sandra 147
Brown, Sandra.~Lugo, Ariel E.~Liegel, Beth. 249
BTRDA. 14
Budyko, Mikhail Ivanovich. 145
Budyko, Mikhail Ivanovich.& Trudy GGI. 275
Bunakova, A.M. 128
Burnage, S. W.~Carr, M. K. V. 67
Caldwell, M.M. 1, 180
Camp, L.B.~Warner, C.W.~Flint, S.D. 1
Carter, T.R. 101
Chapin, F.S. III. 167
Chen, Robert S.~Boulding, Elise.~Schneider, Stephen H.~ Stephen Henry. 265
CJFRAR. 65
Clark, J.S. 100
Clawson, K.L. 129
CLCHDX. 68, 70, 83, 99, 101, 117, 120, 162, 211, 214, 254, 258, 282
Cole, J.~Dungan, J.~Houghton, R.A.~Peterson, B. 245
Cooper, C.F. 130
Cosgrove, T. 276
Crane, A.J. 185, 213
Crutzen, P.J. 119, 248
Cumberland, John H.~Hibbs, James R.~James Russell,~ 1907-~Hoch, Irving,~ 1926-. 98
Cure, J.D. 91
Dahlman, Roger C. 44
Darling, J.D.S. 156
Dean, P. 154
Decker, Wayne L. 165
Denmead, O.T. 49
Du, N.Q. 289
Eastin, J.D. 2
Eberlee, J. 152
ECMOD. 222
Edmonds, J. A. 142
EEBOD. 113
Ek, A.R.~Belli, K.L. 86
Ellsaesser, H.W. 184
Emanuel, W.R. 70, 125
Esser, G. 262
EVCNA. 56, 260
Farrell, Michael P. 186
Fearnside, P.M. 19
Feng, Hsiu-tsao. 93
Flaschka, I. 82
Flohn, H. 118, 210
FLSCA. 178
Ford, Michael J.~ Michael John,~ 1950-. 54
Fowler, W.B. 52
Fraser, H.M. 143
FRCRAX. 138
Fung, I.Y.~Keeling, C.D.~Gammon, R.H. 234
Galloway, P.R. 183
Gauthreaux, S.A. Jr. 176
Gibbs, M.J. 11
Glantz, Michael H.~Katz, Richard W.~Krenz, Maria. 63
Gleick, P.H. 187
Golitsyn, G. S.~Izral', IU. A. 145
Goodwin, C.W. 220
Gornitz, V. 211
Gosink, T.A. 40
Goudriaan, J. 12
Grassl, H. 35
Graybill, D.A.~Fritts, H.C.~Rose, M.R. 171
Gribbin, John~ John R. 45
Grove, A.T. 55
Hader, D.P. 103
Hansen-Bristow, K.J. 81
Hansen, J. 122
Harington, C. R. 72
Harrington, J.B. 65
Hekstra, G.P. 290
Henderson-Sellers, A. 108, 211
Hickisch, B. 175
Higginbotham, K.O. 160
Hobbie, J. 245
Hobbie, J.E.~Houghton, R.A.~Melillo, J.M.~Moore, B. 146
Hobbie, J.E.~Moore, B.~Peterson, B.J.~Shaver, G.R. 51
Hoffman, J.S. 11, 30, 141
Holy, M. 126
Houghton, R.A.~ECMOA. 51
Houghton, R.A.~Melillo, J.M.~Skole, D.L. 14
Hudson, J.P. 169
Hummel, J.R. 96
ICIDB. 126
Idso, S.B. 17, 89, 107, 129, 172, 240, 241
Idso, S.B.~AGMYA. 277
Idso, S.B.~JEVQA. 31
Idso, Sherwood B.,~ 1942-. 37
ITRCD. 19
Ives, J.D.~Wilson, J.P. 81
Jacoby, Gordon. 226
Jager, Jill. 57
JEVQAA. 170
JHYDA. 187
Johnson, D. Gale,~ 1916-. 292

Jones, P.~Jones, J.W. 242
Jones, V.K. 168
Jones, Vernon K.~Achutuni, Rao. 165
JPRAEN. 109
Juday, G.P. 278
Justus, John R. 46
Keeling, C.D. 13
Kelley, J.J. 40
Kellogg, W.A. 127
Kellogg, W.W. 212
Kellogg, William W. 112
Kerr, R.A. 32
Kerr, R.A.~SCIEA. 20, 21
Ketner, P. 12
Kiehl, J.T.~SCIEA. 250
Kienast, F. 231
Kimball, B.A. 17
Kimball, B.A.~AGJOA. 22
Kimball, B.A.~Anderson, M.G.~Mauney, J.R. 107
Kimball, B.A.~AWMAD. 172
Kondrat'ev, K. Ya. 50
Kondratyev, K.YA. 128
Kong, Z.C. 289
Kramer, P.J. 139
Kung, C.H. 288
Lacis, A.~Rind, D.~Russell, G.~Fung, I.~Lebedeff, S. 122
LaMarche, V.C. Jr. 171
Lamb, H.H. 76, 110
Landsberg, J.J. 257
Lane, L.J. 69
Laurmann, J.A. 251
Leavitt, S.W.~Cheng, S. 47
LeDrew, E.F. 260
Lee, J.C. 139
Lieth, H. 192
Liverman, D.M. 68
Long, A. 47
Ludlow, L.~Braclacich, M. 170
Lydon, J. 114
MacCracken, Michael C.~Luther, F. M. 95
Maclean, J.T. 149
Maddox, J.~NATUA. 151
Maier-Reimer, E.~Degens, E.T. 35
Marland, Gregg. 229
Maugh, T.H. II. 203
Mayo, L.R. 196
McBeath, J.H. 215
McCoy, F. W. 73
McKay, G.A. 58
McQuigg, James D. 61
McRoy, C.P. 88
Meeker, J.W. 38
Memmesheimer, Michael. 64
Menzhulin, G.V. 104
Meyer-Abich, K.M. 266
Miller, S. 6
Miller, W.F.~SCSBA. 9
Mori, S.A. 270
Mount, L.E. 256
Muller, G. Jr.~ZEMIDI. 175
Murali, N.S. 113
Murphy, Charles Edward,~ 1940~. 124
Murphy, T.M. 85
Nachtwey, D.S. 228
NATUAS. 15, 100, 206, 234, 236, 241
Newman, J. 121
Newman, J.E.~SCSBA. 269
Newton, J.W. 105
Nix, H.A. 99
Norman, J.M. 216
Nutter, W.L.~SCSBA. 137
OECOBX. 280
Ogallo, L. 286
Ogunlela, V.B. 2
Okada, K.~Hayashi, T.~Kumura, A.~Murata, Y. 94
Ollerenshaw, C.B. 74
Olson, J.S.~Killough, G.G. 125
Oram, P.A. 131, 254
Osborn, H.B. 69
Osterkamp, T.E. 217
Ou-yang, Hai. 93
Overdieck, D. 182
Palm, C.A. 14
Palutikof, J. P. 253
Palutikof, J.P. 166
Parry, M.L. 101, 120
Pastor, J. 236
Pearman, G. I.& The Carbon dioxide climate problem. 26
Pease, R.W. 18
Petersm R.L. 156
PHYVAP. 85
PIAIA. 284
Pimentel, D. 134
Pittock, A.B. 99
Pollard, D.F.W. 138
Post, W.M. 236
Powell, J.M. 83
Prance, G.T. 270
Prentice, I.C.~Webb, T. III. 80
Ralph, W. 59
Rapp, A. 232
Reck, R.A. 96
Reinsel, G. 272
Revelle, R. 34, 197
Reynolds, J.F. 222
Rind, D. 221
Ringe, Axel C. 23
Robberecht, R. 180
Roberts, N. 179
Roberts, W.O. 279
Robinson, D.A. 271
Rodale, R. 97
Rodhe, H. 201
Rose, D.W. 86
Rosenberg, N.J. 5, 133, 173
Rosenberg, N.J.~CLCHD. 174
Rosenzweig, C. 214
Rowland, F.S. 56
Rundel, R.D. 228
Sakamoto, C. 208
Salati, E. 136
Salter, P.J. 261
Sampson, R.N. 235
Sandenburgh, R. 163, 243
Sanhueza, E. 195
Santer, B. 282
Schmitt, Lois E. 225
Schneider-Ziebert, U.~Wellmann, E. 283
Schneider, S.H. 27, 79
Scott, R.K. 259
Seiler, W. 119
Sellers, P.J. 188
Senft, D. 6
Shands, William E.~Hoffman, John S. 158
Shaw R.H. 60
Shewchuk, S. R. 16
Shugart, H.H.~Stevenson, M.P. 70
Singh, T. 83
Sinha, S.K. 164
Sisson, W.B. 116
Smagorinsky, J.~AMBOC. 77
SMHYD. 104
Smit, B. 170
Smith, Catherine Delano.~Parry, Martin. 87
Solomon, A.M. 237, 263, 264, 280
Solomon, Allen M. 238
Spahr, Norman E. 287
SPANA. 4
Stewart, R.B. 71, 90
Stockton, C.W.~Boggess, W.R. 82
Stowers, D.M. 178

Sveinbjornsson, B. 8
Tabb, N.D. 178
Tangley, L. 223
Tarko, A.M. 189
Taylor, C.-Hoffman, J.S. 163, 243
Teramura, A.H. 113, 177
Teramura, A.H.-Summers, E.G. 114
Terjung, W.H.-Hayes, J.T.-Mearns, L.O. 68
Thomas, M.K. 58
Thompson, B. 197
Thompson, K. 140
Thompson, L.M. 62, 75, 109, 199
Thompson, S.L. 27
Tiao, G.C.-Lewis, R. 272
Trabant, D.C. 196
Tricot, C. 198
TRSCAI. 71
Tu, N.C. 288
Tucker, C.J. 234
Tyler, D.D. 105
Unsworth, M.H. 123
Urushibara, K. 233
Van Cleve, K. 268
Vaughan, H.C. 284
Verma, S.B. 5
Viereck, L.A. 268
Waggoner, P.E. 3
Walsh, J.J. 88
Wang, Wei-Chyung. 106
WARBA. 82
Warrick, R.A. 206
Webb, P.G. 111
Weller, G. 190, 252
Weller, G.-Juday, G.P.-Osterkamp, T.E.-Neve, R.A. 215
Wells, J.B. 141
West, D.C. 263
West, D.C.-Solomon, J.A. 264
Whitten, R.C. 194
Whitten, Robert C. 204
Wigley, T. M. L.-Lough, J. M. 253
Wigley, T.M.L. 15
Wigley, T.M.L.-Farmer, G. 166
Williams, G.D.V. 117
Wittwer, S. 244
Wittwer, S.H. 29, 41, 132
Woodman, J.N. 181, 209, 218
Woodward, K. 219
Woodwell, G.M. 42, 43
Woodwell, G.M.-SCIEA. 146
Worrest, Robert C.. 274
WRERAD. 17, 129
XFPNA. 52
Yamagishi, T. 94
Yoshino, M.M. 233
ZAPFA. 2
Zielinski, Walter L. 161
Zimmermeyer, G. 291
1925-. 159
1926--Prasad, Sheo S. 204
1933-. 72
1935--Caldwell, Martyn M.. 274
1941-. 274
1943-. 238
1950-. 158